Progress Report 2017

OHA STATEWIDE SEPSIS MORTALITY REDUCTION INITIATIVE

13.4% REDUCTION IN SEPSIS MORTALITY

1,486 LIVES SAVED

Data through year-end 2016
OHA QUALITY FOCUS AREA

OHA Quality Initiatives Commit to Reduce Ohio Sepsis Mortality by 30%

Efforts Focus on Early Recognition as More Than 80% of Cases Arrive at the Hospital Door

Ohio hospitals achieved a 13.4 percent statewide reduction in sepsis mortality, representing an estimated 1,486 lives saved over the first 18 months of the OHA initiative that began in June 2015.

OHA launched the statewide initiative with a goal of reducing sepsis mortality in Ohio by 30 percent by year-end 2018. The target rate is 14.9 percent.

OHA and participating hospitals are taking the lead to decrease the number of sepsis deaths in Ohio by increasing early recognition of the signs of sepsis and early, appropriate intervention throughout the continuum of care.

The OHA Board of Trustees identified and approved sepsis mortality reduction in Ohio hospitals as one of the key focus areas for OHA and Ohio hospitals for 2015–2018. Specifically, OHA’s board-directed goal is to reduce sepsis mortality by 30 percent by the end of 2018.

A statewide sepsis initiative was launched by OHA’s clinical quality team led by James Guliano, MSN, RN-BC, FACHE, vice president, OHA Quality Programs, building on outcome strategies achieved during the association’s participation in the nationwide Leading Edge Advance Practice Topics program, or LEAPT. The topic of sepsis has since been incorporated into several forums hosted by the quality team, such as the OHA Hospital Improvement Innovation Network Hospitals, the Ohio regional quality collaboratives, and the Clinical Advisory Committee of OHA’s Board of Trustees.

In 2014, OHA facilitated a successful rapid cycle improvement initiative for sepsis through the LEAPT program. This program included the initiation of an early warning system process, sepsis order sets for different departments and reports for ease of auditing sepsis cases. These achievements were necessary for complete implementation and evaluation of a sepsis program resulting in a 32 percent reduction reported in sepsis mortality among participating hospitals.

ABOUT SEPSIS

Sepsis is a life-threatening condition that arises when the body’s overwhelming response to infection begins to cause injury and damage to tissues and organs. More than 38,000 Ohioans were impacted by sepsis in 2016 and 7,380 did not survive. Many of these patients continue to require additional health care services after surviving sepsis due to the complications of the disease.

Early recognition and appropriate treatment can reduce the morbidity and mortality of sepsis. Any infection can trigger sepsis, but the following types of infections are more likely to cause sepsis: pneumonia, abdominal infection, kidney infection or a bloodstream infection.

According to the CDC, the number of sepsis cases in the United States increases every year. The NIH reports that sepsis causes more deaths in the United States than prostate cancer, breast cancer and AIDS combined.

The World Health Assembly and the World Health Organization on May 26, 2017 made sepsis a global health priority by adopting a resolution to improve, prevent, diagnose and manage sepsis. Additionally, on Aug. 23, 2016, the Centers of Disease Control and Prevention declared sepsis a “medical emergency” encouraging more awareness as “sepsis begins outside of the hospital for nearly 80 percent of patients.”
OHA launched its statewide sepsis initiative in June 2015 as a collaborative for hospitals to join with two key strategies: to improve early recognition and early, appropriate intervention with incorporation of the Surviving Sepsis Campaign’s three-hour sepsis bundle.

Hospitals that joined the initiative receive quarterly reports of their progress, access to monthly evidence-based educational and coaching calls, as well as additional resources and support at no cost.

Additionally, participating hospitals have reported the following activities:

- Coordinating with EMS/ambulance services to provide sepsis education and early appropriate intervention protocols
- Incorporating national Sepsis Alliance templates for discharge instructions of sepsis patients
- Reviewing rapid response team protocols and activation process to treat sepsis patients
- Improving recognition and treatment before rapid response team is needed
- Implementing Focused Assessments to determine condition of septic patient
- Creating and distributing education materials (signs of sepsis) for the community and partners
- Assigning a dedicated “sepsis coordinator” to work with clinical team on policies and protocols
- Expanding education for staff orientation
- Distributing a sepsis alert page throughout the hospital when a patient arrives or is identified as septic, creating a mandatory consult for a critical care physician and ensuring information is passed, including the time for the 6-hour focused exam and the location of the patient
- Developing marketing materials such as radio ads and billboards to educate the community on the signs of sepsis

In 2017, OHA hosted four regional sepsis continuing medical education (CME) events throughout Ohio. Pictured is the regional event in the northwest region.

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Overall Sepsis Mortality
- 2014 Baseline Rate = 21.3%
- 30% Reduction Target Rate = 14.9%
- Linear (Overall Sepsis Mortality)

13.4% REDUCTION

In 2017, OHA hosted four regional sepsis continuing medical education (CME) events throughout Ohio. Pictured is the regional event in the northwest region.
 Hospitals Participating in the OHA Statewide Sepsis Initiative

**Central**
- Berger Health System
- Diley Ridge Medical Center
- Fairfield Medical Center
- Fayette County Memorial Hospital
- Knox Community Hospital
- Licking Memorial Hospital
- Mary Rutan Hospital
- Memorial Health
- Mount Carmel East
- Mount Carmel New Albany
- Mount Carmel St. Ann’s
- Mount Carmel West
- OhioHealth Doctors Hospital
- OhioHealth Dublin Methodist Hospital
- OhioHealth Grady Memorial Hospital
- OhioHealth Grant Medical Center
- OhioHealth Riverside Methodist Hospital
- The Ohio State University East Hospital
- The Ohio State University Richard M. Ross Heart Hospital
- The Ohio State University The James Cancer Hospital and Solove Research Institute
- The Ohio State University Wexner Center

**Northeast**
- Affinity Medical Center
- Ashtabula County Medical Center
- Aultman Hospital
- Aultman Orrville Hospital
- Cleveland Clinic Akron General Lodi Hospital
- Cleveland Clinic Akron General Medical Center
- Cleveland Clinic Avon Hospital
- Cleveland Clinic Euclid Hospital
- Cleveland Clinic Fairview Hospital
- Cleveland Clinic Hillcrest Hospital
- Cleveland Clinic Lodi Hospital
- Cleveland Clinic Lutheran Hospital
- Cleveland Clinic Main Campus
- Cleveland Clinic Marymount Hospital
- Cleveland Clinic Medina Hospital
- Cleveland Clinic South Pointe Hospital
- East Liverpool City Hospital
- Lake Health Tripoint Medical Center
- Lake Health West Medical Center
- Mercy Hospital of Defiance
- Mercy Health—St. Anne Hospital
- Mercy Health—St. Charles Hospital
- Mercy Health—St. Elizabeth Boardman Hospital
- Mercy Health—St. Elizabeth Youngstown
- Mercy Health—St. Joseph Warren Hospital
- Mercy Health—St. Rita’s Medical Center
- Mercy Health—St. Vincent Medical Center
- Mercy Tiffin Hospital
- Mercy Willard Hospital
- MetroHealth System
- OhioHealth Mansfield Hospital
- OhioHealth Shelby Hospital
- Pomerene Hospital
- Salem Regional Medical Center
- Southwest General Health Center
- St. Vincent Charity Medical Center
- Steward Health Care—Northside Medical Center
- Steward Health Care—Trumbull Memorial
- Summa Health
- Union Hospital
- University Hospitals Cleveland Medical Center
- University Hospitals Samaritan Medical Center
- Western Reserve Hospital

**Northwest**
- Blanchard Valley Hospital
- Bluffton Hospital
- Bucyrus Community Hospital
- Community Hospitals & Wellness Centers—Bryan Hospital
- Community Hospitals & Wellness Centers—Montpelier
- Firelands Regional Medical Center
- Fisher-Titus Medical Center
- Galion Community Hospital
- Grand Lake Health System—Joint Township
- District Memorial Hospital
- Henry County Hospital
- Magruder Hospital
- Mercer Health
- Mercy Allen Hospital
- Mercy Regional Medical Center
- Mercy Medical Center
- OhioHealth Hardin Memorial Hospital
- OhioHealth Marion General Hospital
- ProMedica Bay Park Hospital
- ProMedica Defiance Regional Hospital
- ProMedica Flower Hospital
- ProMedica Fostoria Community Hospital
- ProMedica Memorial Hospital
- ProMedica Toledo Hospital
- The Belleview Hospital
- University of Toledo Medical Center
- Van Wert County Hospital
- Wayne Healthcare
- Wyandot Memorial Hospital
- Wood County Hospital

**Southeast**
- Belmont Community Hospital
- Coshocton Regional Medical Center
- Genesis Healthcare System
- Holzer Gallipolis
- Holzer Medical Center—Jackson
- Marietta Memorial Hospital
- OhioHealth O’Bleness Hospital
- Selby General Hospital
- Southeastern Ohio Regional Medical Center

**Southwest**
- Adena Greenfield Medical Center
- Adena Pike Medical Center
- Adena Regional Medical Center
- CMH Regional Health System—Clinton Memorial Hospital
- King’s Daughters Medical Center Ohio
- Mercy Health Anderson Hospital
- Mercy Health Clermont Hospital
- Mercy Health Fairfield Hospital
- Mercy Health West Hospital
- Mercy Memorial Hospital
- Mercy Springfield Regional Medical Center
- Mercy Lourdes Hospital (KY)
- Premier Health Atrium Medical Center
- Premier Health Good Samaritan Hospital
- Premier Health Miami Valley Hospital
- Premier Health Miami Valley South
- Premier Health Upper Valley Medical Center
- Southern Ohio Medical Center
- The Christ Hospital
- The Jewish Hospital—Mercy Health
- UC Health
- Wilson Health
OHA's quality program education materials and resources are available for hospitals and community partners to access at www.ohiohospitals.org/sepsis. These online resources features national publication articles, reports, research studies and OHA monthly webinar recordings of professional and national sepsis experts and clinicians sharing their best practices. Additionally, OHA's SOS campaign webpage features a member toolkit, graphics, social media promotions and more at www.ohiohospitals.org/SOS.

OHA Hospital Teams Learn from Leaders in Sepsis Care

OHA quality team has provided member participants with programming focused on a wide range of topics concerning sepsis featuring clinical experts and speakers from across the nation including:

- Steven Burdette, MD, FIDSA, FACP, professor of Medicine, Wright State University Boonshoft School of Medicine
- Rommie L. Duckworth, LP, Founder and Director of the New England Center for Rescue and Emergency Medicine
- Katherine Eilenfeld, DO, Westshore Primary Care, Ohio
- Cindy Hou, DO, MBA, FACOI, Kennedy Health System, Stratford, New Jersey
- Marianne Kraemer, MPA, MEd, BSN, RN, CCRN, Kennedy Health System, Stratford, New Jersey
- James O’Brien, MD, MS, vice president, Quality and Patient Safety, OhioHealth; Board of Directors, Sepsis Alliance
- Marlene Oliver, BSN, RN-BC, CHPN, University Hospitals St. John Medical Center
- Michael Patterson, DO, vice president, Medical Affairs, OhioHealth Mansfield Hospital
- Hallie Prescott, MD, MSc, assistant professor, Department of Internal Medicine, Division of Pulmonary and Critical Care Medicine, University of Michigan
- Cynthia Shellhaas, MD, MPH, The Ohio State University Wexner Medical Center
- Michael Taylor, MD, FACS, Medical Director, Surgical Critical Care, Cleveland Clinic Fairview Hospital
- Stephen Thung, MD, The Ohio State University Wexner Medical Center
- Paul Zeeb, MD, Emergency Medicine Physicians, Mount Carmel Health System; chair, Region IV Physician Advisory Board

Sepsis is a race against time

Symptoms of sepsis include:

- S – Shivering, fever or very cold
- E – Extreme pain or general discomfort (“worst ever”)
- P – Pale or discolored skin
- S – Sleepy, difficult to rouse, confused
- I – “I feel like I might die”
- S – Short of breath

If you suspect sepsis (observe a combination of these symptoms) see your medical professional immediately, CALL 911, or go to a hospital with an advocate and say, “I AM CONCERNED ABOUT SEPSIS.”

Source: SEPSIS ALLIANCE
In the sepsis initiative, OHA has partnered with the Sepsis Alliance, and is advised by James O’Brien, MD, MS, founding member and board member for Sepsis Alliance.

The OHA and Sepsis Alliance partnership has included activities such as: conducting a community campaign, promoting sepsis awareness month observance with Ohio Governor’s proclamation, participating in the annual Spike Out Sepsis event held in Columbus, participating in the annual Sepsis Heroes event in New York City, and providing statewide professional continuing medical education.

The OHA Board further called for a measure of leadership commitment to achieving a reduction in sepsis mortality. Hospital leaders, mostly chief executive officers, were provided with a list of action categories and were asked to identify which actions were being undertaken, thereby demonstrating their commitment of leadership and operational resources.

The leadership action categories include: resource allocation at the hospital level, organizational sepsis certification, fostering a culture of learning, accountability and sustainability, visible and vocal leadership endorsement, identification of hospital metric(s) related to sepsis mortality reduction, and joining the OHA statewide sepsis initiative.

The organizational action categories include: incorporation of early recognition and early appropriate intervention into staff performance evaluations and competency, action plan development for sepsis reduction, a focus upon opportunities for operational improvement, actively presenting an effective practice to peers in the OHA statewide sepsis initiative, and collaboration across the provider continuum of care. Ninety percent of the participating hospitals have submitted formal commitments indicating at least one action in the leadership and organizational areas currently being undertaken.
COMMUNITY CAMPAIGN

Community Partners Promote OHA SOS

In alignment with National Sepsis Awareness month in September, 2016, OHA launched another phase of the statewide campaign introducing the OHA Signs of Sepsis initiative. To further the goal of increasing early recognition and early, appropriate intervention, the campaign targets hospitals and the community by reaching out to caregivers, first responders and health care providers across the continuum of health care services. Since the recent launch, OHA has incorporated partners in pre-hospital care, post-acute and long-term care, skilled nursing and assisted living facilities.

Sepsis Alliance and LeadingAge Ohio were the first to join OHA for this effort. The campaign will direct hospitals and community partner organizations to ohiohospitals.org/SOS where they will submit their interest and support of sharing and promoting the signs of sepsis to their constituencies.

OHA continues to expand this initiative by engaging community partners through education and process improvement. Partnering with the Health Services Advisory Group or HSAG (Ohio’s QIO-QIN), OHA has provided sepsis education to nursing homes and home health agencies in Ohio regarding early recognition and treatment of sepsis to better transition patients to the appropriate level of care in a timely fashion.

On Dec. 7, 2016, over 100 leaders of Ohio-based long-term care facilities attended an educational program jointly presented by OHA and HSAG with emphasis upon early recognition and a communication strategy for escalating clinical concerns to seek a higher level of care in a timely fashion, thereby halting the progression of sepsis and leading to better patient outcomes. In addition, OHA is collaborating with pre-hospital providers in emergency medical services to develop a consistent hospital response to EMS-generated sepsis alerts in order to promote early initiation of treatment in the field and timely continuation of appropriate interventions by the receiving emergency department.

To further enhance the collaboration and spread of information, formal educational programs were provided at the state level by OHA at the Ohio Association for Healthcare Quality Annual Conference on May 19, 2016, Ohio’s LeadingAge Annual Conference on Sept. 8, 2016, the Association for Health Information Management Association on Oct. 5, 2016, and the Ohio Organization of Nurse Executives on Nov. 10, 2016. Nationally, James O’Brien, MD, presented a CDC Town Hall presentation entitled, “How Three States Tackled Sepsis” on Aug. 30, 2016, showcasing the Ohio initiative along-side Wisconsin and New York.

Additionally, OHA’s initiative has been featured in Ohio and national media publications and broadcasts including WOSU’s All Sides with Ann Fisher, Becker’s Hospital Review, HealthLeaders, Fierce Healthcare, HealthScene Ohio and Gongwer.

Ohio Governor John Kasich declared September as Sepsis Awareness Month in 2016 and 2017.

In 2017, OHA and its SOS campaign received the American Hospital Association’s Dick Davidson Quality Milestone Honorable Mention Award for Allied Association Leadership.
CALL TO ACTION

Join OHA’s SOS Campaign and Promote the Signs of Sepsis

OHA QUALITY PROGRAMS TEAM

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Take Action

Join the OHA SOS Campaign—visit www.ohiohospitals.org/sos.

Access the campaign toolkit—organize an event, distribute information, build a webpage.

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